Notice of Allowability	Application No.	Applicant(s)
	10/689,406	KHONSARI ET AL.
	Examiner	Art Unit
	Vishal Patel	3676
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to		
2. The allowed claim(s) is/are <u>1-9</u> .		
3. ☑ The drawings filed on 20 October 2003 are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
 hereto or 2) ☐ to Paper No./Mail Date including changes required by the attached Examiner's Amendment / Comment or in the Office action of 		
Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attacker and a)		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	(PTO-413),
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Dat 8), 7. ☐ Examiner's Amendn	re nent/Comment
Paper No./Mail Date 10/2003 and 7/2004 4. Examiner's Comment Regarding Requirement for Deposit	8. ⊠ Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9. Other	
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DETAILED ACTION

The following is an examiner's statement of reasons for allowance: Prior art (Heinen or 1. Scott) teach a mechanical seal having a rotating ring and a mating ring adapted to seal to one another, the mating ring having a first stationary ring comprising a circumferential groove channel, a seal face, and an outer and inner surface, the outer surface having plurality of symmetrically spaced radial holes, holes a provided on the seal face, a second stationary ring having a circumferential diverter, the circumferential groove channel is adapted to receive the circumferential diverter so that, when combined, the first and second stationary rings form the mating ring having a circumferential divergent flow-channel communicating with the plurality of holes and a coolant is flowed through the flow-channel to provide heat transfer between the interface of the rotating and mating rings but fails to teach or fairly suggest the outer and inner surface each having plurality of symmetrically-spaced radial holes. Furthermore to have the holes on the seal of the Heinen or Scott to be configured on the inner surface of the first stationary ring would not be obvious because the hole on the seal face is used to provide a fluid film between the faces to reduce wear and combining a reference that teaches holes on the inner surface would destroy the invention of Heinen and Scott.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vishal Patel whose telephone number is (703) 308-8495. The examiner can normally be reached on Monday through Friday from 7:30 PM to 4:00 PM (EST).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Swann, can be reached on (703) 306-4115.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-2168. Technology Center 3600 Customer Service is available at 703-308-1113. General Customer Service numbers are at 800-786-9199 or 703-308-9000. Fax Customer Service is available at 703-872-9325.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to: 703-872-9326, for formal communications for entry before Final action: or, 703-872-9327, for formal communications for entry after Final action.

Hand-delivered responses should be brought to Crystal Park Five, 2451 Crystal Drive, Arlington, Virginia, Seventh Floor (Receptionist suite adjacent to the elevator lobby).

VP August 19, 2004

> ALISON PICKARD Primary Patent Examiner Tech. Center 3600

Ali-Pickard